CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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QC ABSTRACT

Nameof Work:Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Materials	–	1	1	Cement Sand, Aggregates	One Test Per Lo
2	CC Blocks	409 Sqm	1	1	Concrete Cube Compressive Strength	-
3	Steel	13.31 Tonne	1	1	–	-
4	M25	80.04 cum	5	5	Concrete Cube Compressive Strength	-
5	M25	27.56 cum	3	3	Concrete Cube Compressive Strength	-
6	M20	4.73 cum	1	1	Concrete Cube Compressive Strength	-
7	M20	3.24 cum	1	1	Concrete Cube Compressive Strength	-
8	M20	16.80 cum	3	3	Concrete Cube Compressive Strength	-
9	Ceramic Tiles	7.12 Sqm	1	1		-
10	Slab (100mm)	35 Sqm	1	1	Concrete Core Compressive Strength	-
11	Kerb	81 Nos	1	1	Concrete Core Compressive Strength	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

CIVIL AIM CONSULTANTS & ENGINEERS BANGALORE

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date: 09.09.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**
AGENCY	:	**Sri K R Santhosh Kumar, Contractor, Bangalore.**
NAME OF THE WORK	:	Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		August- 2021
DATE OF TESTING		07.09.2021 To 09.09.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Note:

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date : 09.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**

Agency : **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of Work :Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Date of Testing : 09.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	91	9.10	9.10	90.9	90-100
2.36	125	12.50	21.60	78.4	75-100
1.18	185	18.50	40.10	59.9	55-90
600 Micron	165	16.50	56.60	43.4	35-59
300 Micron	256	25.60	82.20	17.8	8-30
150 Micron	138	13.80	96.00	4.0	0-10

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date 09.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**

Agency : **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of Work : Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Date of Testing 09.09.2021

Material : Sand(Plastering) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	13.5	1.35	1.35	98.7	95-100
2.36	19	1.90	3.25	96.8	95-100
1.18	21	2.10	5.35	94.7	90-100
600 Micron	70	7.00	12.35	87.7	80-100
300 Micron	265	26.50	38.85	61.2	20-65
150 Micron	541	54.10	92.95	7.1	0-15

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date 09.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**

Agency : **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of Work : Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Date of Testing 09.09.2021

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	35	3.50	5.60	94.4	70-100
600 Micron	85	8.50	14.10	85.9	40-100
300 Micron	245	24.50	38.60	61.4	5-70
150 Micron	478	47.80	86.40	13.6	0-15

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date : 09.09.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**

Agency : **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of Work :Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Date of Testing : 09.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	192	3.8	3.8	96.2	95-100
10	2445	48.9	52.7	47.3	25-55
4.75	1965	39.3	92.0	8.0	0-10

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date : 09.09.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**

Agency : **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of Work :Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Date of Testing : 09.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	196	1.31	1.31	98.69	95-100
20	8265	55.10	56.41	43.59	30-70
10	3255	21.70	78.11	21.89	10-35
4.75	2815	18.77	96.87	3.13	0-5

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date : 13.09.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client :**Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**

Agency : **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of the Work :Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Date of Testing : 13.09.2021

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	23.6	211.2	3.52	1966.67	Minimum required Compressive Strength of Individual Units 3.5 N/mm^2
2	Block 2	23.5	213.8	3.56	1958.33	
3	Block 3	23.8	212.5	3.54	1983.33	
4	Block 4	23.7	214.3	3.57	1975.00	

Note:

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date : 14.09.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	: Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.
Agency	: Sri K R Santhosh Kumar, Contractor, Bangalore.
Name of Work	: Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.
Steel Dia/Length	: 8mm,10mm,12mm,16mm " Fe500 TMT Bars
Reference to BIS codes	: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
	: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test	: 14.09.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	545	632	1.16	14
2	TMT	10	0.618	559	652	1.17	15.5
3	TMT	12	0.889	568	668	1.18	17
4	TMT	16	1.59	574	676	1.18	18

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date: 27.09.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**

Agency **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of the work : Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Sample ID : Cement Concrete for Column

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.09.2022	27.09.2022	8.166	386.3	17.17
2	20.09.2022	27.09.2022	8.154	405.2	18.01
3	20.09.2022	01.07.2020	8.181	419.8	18.66

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date: 18.10.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**
Agency	**Sri K R Santhosh Kumar, Contractor, Bangalore.**
Name of the work	: Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.
Sample ID	: Cement Concrete for Column
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.09.2022	18.10.2022	8.184	616.3	27.39
2	20.09.2022	18.10.2022	8.169	596.3	26.50
3	20.09.2022	18.10.2022	8.153	629.1	27.96

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date: 12.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Agency	: **Assistant Executive Engineer, Project (Yelahanka) Sub Division, Sri K R Santhosh Kumar, Contractor, Bangalore.**
Name of the work	: Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.
Sample ID	: Cement Concrete for Lintel beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.10.2021	12.10.2021	8.195	400.8	17.81
2	05.10.2021	12.10.2021	8.136	419.6	18.65
3	05.10.2021	12.10.2021	8.168	395.2	17.56

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22

Date: 12.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**

Agency : **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of the work : Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.10.2021	12.10.2021	8.169	336.3	14.95
2	05.10.2021	12.10.2021	8.172	346.5	15.40
3	05.10.2021	12.10.2021	8.154	352.8	15.68

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date: 02.11.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**
Agency	: **Sri K R Santhosh Kumar, Contractor, Bangalore.**
Name of the work	: Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.10.2021	02.11.2021	8.165	502.6	22.34
2	05.10.2021	02.11.2021	8.128	516.8	22.97
3	05.10.2021	02.11.2021	8.149	492.7	21.90

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date: 25.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**
Agency	**Sri K R Santhosh Kumar, Contractor, Bangalore.**
Name of the work	: Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.
Sample ID	: Cement Concrete for Roof Beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	25.10.2021	8.126	378.6	16.83
2	18.10.2021	25.10.2021	8.138	389.4	17.31
3	18.10.2021	01.07.2020	8.149	392.5	17.44

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date: 15.11.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Project (Yelahanka) Sub Division, BBMP, Bangalore.**
Agency	**Sri K R Santhosh Kumar, Contractor, Bangalore.**
Name of the work	: Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.
Sample ID	: Cement Concrete for Roof Beam
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	15.11.2021	8.165	606.3	26.95
2	18.10.2021	15.11.2021	8.146	626.3	27.84
3	18.10.2021	15.11.2021	8.152	615.8	27.37

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Job No.: CACE/BBMP/KRS/W.No.07/2021-22 Date: 25.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Project (Yelahanka) Sub Division,**

Agency **Sri K R Santhosh Kumar, Contractor, Bangalore.**

Name of the work : Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Sample ID : Cement Concrete for Roof Slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	25.10.2021	8.166	408.2	18.14
2	18.10.2021	25.10.2021	8.134	416.3	18.50
3	18.10.2021	25.10.2021	8.149	389.6	17.32

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Project (Yelahanka) Sub Division,**
Agency	**Sri K R Santhosh Kumar, Contractor, Bangalore.**
Name of the work	: Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.
Sample ID	: Cement Concrete for Roof Slab
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	15.11.2021	8.177	625.3	27.79
2	18.10.2021	15.11.2021	8.169	619.6	27.54
3	18.10.2021	15.11.2021	8.185	606.9	26.97

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	25.10.2021	8.168	388.9	17.28
2	18.10.2021	25.10.2021	8.184	406.3	18.06
3	18.10.2021	01.07.2020	8.179	418.2	18.59

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Name of the work : Construction of Ambedkar Bhavana1st Floor and Balance works at Jakkur in Ward No.07, BBMP ,Bangalore.

Sample ID : Cement Concrete for Roof Slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.10.2021	15.11.2021	8.195	412.3	18.32
2	18.10.2021	15.11.2021	8.164	409.2	18.19
3	18.10.2021	22.07.2020	8.172	384.9	17.11

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